Amendment to the Claims:

1-2. (Cancelled)

3. (Currently Amended) ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:

~~means for enrichment of~~ enriching a plasma signal contribution.

4. ((Currently Amended) ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:

~~selection means for a selective analysis of~~ selectively analyzing the plasma component.

5. (Currently Amended) ~~An analysis apparatus~~ The method as claimed in claim [[2]] 18, further comprising:

~~means for~~ stopping or slowing down [[the]] blood flow in the target region, in particular by pressure squeezing.

6. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[2]] 7,

wherein the image processing unit ~~is adapted for selecting vessel~~ selects areas in the image showing capillary vessels or vessel portions having a diameter below a ~~predetermined~~ 15 µm diameter ~~value by use of~~ using an optical vessel tracking ~~means~~ system.

7. (Currently Amended) An analysis apparatus ~~as claimed in claim 2, wherein~~ in particular a spectroscopic analysis apparatus, for blood analysis comprising:

an excitation system for emitting an excitation beam to excite a target region;

a detection system for detecting scattered radiation from the target region generated by the excitation beam and for analyzing the scattered radiation;

a monitoring system for emitting a monitoring beam to image the target region;

[[the]] an image processing unit ~~is adapted~~ for processing the image of the target region and for selecting vessel areas in the image showing capillary vessels or vessel portions having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount by use of [[the]] contrast in the image; and

a control unit for controlling the detection system to analyze only scattered radiation from the selected vessel areas and/or for controlling the excitation system to excite only the selected vessel areas or predetermined areas;

wherein only scattered radiation from blood in capillaries having a diameter below a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount is analyzed.

8. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[2]] 7, wherein;

the image processing unit ~~is adapted for retrieving~~ retrieves at least one of velocity and distance information of red blood cells in the image and intensity information from the scattered radiation; and

~~wherein~~ the control unit ~~is adapted for controlling~~ controls the detection system by use of said ~~velocity and distance~~ retrieved information.

9-10. (Cancelled)

11. (Currently Amended) [[An]] A spectroscopic analysis apparatus ~~as claimed in claim 1, further~~ for blood analysis comprising:

a sample holding system comprising a capillary containing the blood to be analyzed, the capillary having a diameter of 50 μm or less;

an excitation system which emits an excitation beam to excite blood in the capillary, an amount of red blood cells in the blood in the capillary being below a predetermined cell amount;

a detection system which detects scattered radiation from the blood in the capillary generated by the excitation beam and for analyzing the scattered radiation; and

an analysis system which analyzes only scattered radiation from the blood in the capillary.

12. (Currently Amended) [[An]] The analysis apparatus as claimed in claim 11, wherein said capillary is ~~adapted for moving~~ configured to move along its longitudinal axis and/or along the direction of the incoming excitation beam.

13. (Currently Amended) [[An]] The analysis apparatus as claimed in claim 11, further comprising:

~~means for causing a flow of~~ a device that flows the blood through the capillary.

14. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 11, wherein ~~said predetermined~~ capillary diameter ~~value~~ is less than 15 µm[[,]] ~~in particular 10 µm~~.

15. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 11, wherein said predetermined blood cell amount is below haematocrit 0.35.

16. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 7, further comprising:

a radiation source ~~to emit~~ which emits an output beam; and

an optical separation system ~~to separate~~ which separates the monitoring beam and the excitation beam from the output beam.

17. (Currently Amended) [[An]] The analysis apparatus as claimed in claim [[1]] 7, further comprising:

~~trigger means for triggering of~~ a device which triggers at least one of the excitation system for time-resolved excitation of the garget region and[[/or]] the detection system for time-resolved excitation of the target region and/or for time-resolved detection of scattered radiation from the target region.

18. (Currently Amended) ~~An analysis method, in particular a~~ A spectroscopic analysis method[[,]] for blood analysis ~~on vessels~~ comprising ~~the steps of~~:

selecting a target region in the upper dermis having red blood cells below a haematocrit value of 0.35;

[[-]]~~emitting an excitation beam to excite~~ exciting plasma, cell membranes, and blood in capillaries in the a target region,

[[-]]detecting scattered radiation from the target region generated by the excitation beam,

[[-]]analyzing ~~the scattered radiation, wherein~~ only scattered radiation from the blood in the capillaries having a diameter below ~~a predetermined diameter value and/or including an amount of red blood cells below a predetermined cell amount is analyzed~~ 15 µm, the plasma, and the cell membranes in the target region.

19. (New) The method as claimed in claim 18, wherein the analysis determines a cholesterol reading.

20. (New) The analysis apparatus as claimed in claim 7, wherein the predetermined cell amount is below a haematocrit value of 0.35 or less.